

## PATENT COOPERATION TREATY

## PCT



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/KR2003/000733</b>	International filing date (day/month/year) <b>11 APRIL 2003 (11.04.2003)</b>	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC  <b>IPC7 A61K 7/48</b>		
Applicant  <b>COREANA COSMETICS CO., LTD. et al</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
- These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:
- I ☒ Basis of the report
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>11 NOVEMBER 2004 (11.11.2004)</b>	Date of completion of this report  <b>03 AUGUST 2005 (03.08.2005)</b>
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  <b>CHANG, Jin Ah</b>  Telephone No. 82-42-481-5602 

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/000733

## 1. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/000733

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

**2. Citations and explanations (Rule 70.7)**

The present invention claimed 1 is related to a promoting fibroblasts and keratinocytes proliferation, which comprises an extract from a seed of Areca catechu and an extract from Glycyrrhiza glabra. claims 2 to 10 is related to a cosmetic composition with dual function for skin whitening and remedy of skin wrinkles comprising the same ingredient and a cosmetically acceptable carrier.

**1. Prior Art**

The following International Search Report citation has been considered for the purpose of this report:

D1= JP 01-233207 A (1989. 9. 19)

D2= JP 05-320037 A (1993.12. 3)

D1 discloses a hair tonic by combining the extract of at least 5 kinds of crude drugs selected from fruit of Chaenomeles sinensis etc., with the extract of at least one kind of crude drug selected from root of Glycyrrhiza uralensis etc.

D2 discloses an antioxidation agent having high safety and exhibiting remarkable antioxidation effect to give a cosmetic in preventing the aging and chapping of the skin comprising fruit of Areca catechu.

**2. Novelty**

The present invention is to provide a composition of promoting fibroblasts and keratinocytes proliferation and having a dual function for skin whitening and remedy of skin wrinkles comprising an extract from a seed of Areca catechu and an extract from Glycyrrhiza glabra.

(Continued on Supplemental Sheet.)

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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Supplemental Box  
(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box. V

But the cited documents only describe the general state of the prior art comprising an extract from a seed of Areca catechu for preventing the skin aging and an extract from Glycyrrhiza glabra as a hair tonic additives, but do not disclose anything about the combination of Areca catechu and Glycyrrhiza glabra as an active ingredient having an effect of promoting fibroblasts and keratinocytes proliferation and dual function for skin whitening and remedy of skin wrinkles.

Therefore, the subject-matter of claims 1-10 in the present application is considered to be novel over the above citations[PCT Article 33(2)].

## 3. Inventive Step

As disclosed in Table II to VIII of the present invention concerning the effect on Fibroblast proliferation and dual function for skin whitening and remedy for skin wrinkles, the combination of said ingredients shows a remarkably enhanced effect.

It seems to be caused from the specific combination of the ingredient, which can not be easily derived from the cited prior art documents.

Accordingly, claims 1-10 in the present applications are considered to satisfy the inventive step[PCT Article 33(3)].

## 4. Industrial Applicability

The subject matter of claims 1-10 meets the requirement of PCT Article 33(4).